

Xiao Fan

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EDUCATION

• Tongji University · College of Computer Science and Technology	Shanghai, China
<i>B.Eng. in Data Science and Big Data Technology; GPA: 4.84/5; Rank: 1/37</i>	<i>2022.09–2026.06</i>
• Tsinghua University · Tsinghua Shenzhen International Graduate School	Shenzhen, China
<i>D.Eng. in Electronic Information, advised by Prof. Zhi Wang</i>	<i>2026.09–2031.06</i>

RESEARCH INTERESTS

• Test-Time Adaptation	<i>2025.01–Present</i>
<i>Test-time model adaptation under data distribution shifts (domain shift) without access to source data.</i>	
• Self-Evolving Embodied Agent	<i>2025.05–Present</i>
<i>Embodied agents that learn from environmental interaction to continually self-improve.</i>	

EXPERIENCE

• HeyWhale	Remote
<i>Data Analyst Intern (Part-time)</i>	<i>2024.07–2024.08</i>
◦ Community Support in Data Science: Provided timely answers and guidance to learners and developers on data analysis, machine learning, statistics, and visualization questions in online communities.	
◦ Tutorial and Educational Content Creation: Designed and authored clear, structured tutorials and guides, translating complex data science concepts into practical, easy-to-follow instructions.	
◦ Knowledge Sharing and Engagement: Enhanced community learning by sharing example code, best practices, and learning paths to improve technical skills and foster engagement.	

PUBLICATIONS (* EQUAL CONTRIBUTION, † CORRESPONDING AUTHOR)

• Beyond the Exploration-Exploitation Trade-off: A Hidden State Approach for LLM Reasoning in RLV	<i>2025</i>
Fanding Huang*, Guanbo Huang*, Xiao Fan , Yi He, Xiao Liang, Xiao Chen, Qinting Jiang, Faisal Nadeem Khan, Jingyan Jiang†, Zhi Wang†	
<i>Submitted to ACL ARR 2026.</i>	
Keywords: LLM Reasoning, Reinforcement Learning, Representation Interpretability	
[PDF] [BibTeX] [Code] [Project Page]	
• MoETTA: Test-Time Adaptation Under Mixed Distribution Shifts with MoE-LayerNorm	<i>2026</i>
Xiao Fan, Jingyan Jiang†, Zhaoru Chen, Fanding Huang, Xiao Chen, Qinting Jiang, Bowen Zhang, Xing Tang, Zhi Wang	
<i>Proceedings of the 40th Annual AAAI Conference on Artificial Intelligence (AAAI, CCF-A, 17.6% overall acceptance rate)</i>	
Keywords: Test-Time Adaptation, Mixture of Experts	
[PDF] [BibTeX] [Code]	

SELECTED HONORS AND AWARDS

• Global Campus AI Algorithm Elite Competition	National 1st Prize
<i>Challenge: “BIRADS Classification and Feature Recognition in Ultrasound Breast Images”</i>	<i>2024.11</i>
• 15th Lanqiao Cup	National 3rd Prize
<i>Python Programming</i>	<i>2025.08</i>
• Tongji University Excellent Student Scholarship	1st Prize
<i>Guo Xie Birong Scholarship, 2 out of 756 students</i>	<i>2023.12</i>

SKILLS SUMMARY(* EXPERT, † PROFICIENT, ‡ BASIC, § HANDS-ON EXPERIENCE)

• Programming: Python*, C++†, C†, Bash‡, SQL‡, JavaScript§, TypeScript§	
• Frameworks: PyTorch†, Scikit†, Streamlit†, Next.js‡, Qt Quick‡, TailwindCSS‡	
• Tools: Pandas†, LATEX†, Vim†, Tmux†, Git†, Matplotlib†, Docker‡	
• Languages: English† (CET-4: 658, Top 1%; CET-6: 608, ~Top 5%), Japanese§ (Self-Study on Duolingo)	
• Sports: Men’s Pistol* (10m Air, 25m Rapid Fire, 50m Free; Achieved 1st Place (Team) and 4th Place (Individual) at Shanghai City Championship), Badminton†, Golf‡, Indoor Climbing‡	

VOLUNTEER EXPERIENCE

• Math Takeaway (Campus Public Welfare Organization)	Tongji University
<i>Lecturer for Linear Algebra</i>	<i>2025.09–2025.12</i>
◦ Delivered a Linear Algebra final exam review lecture.	
◦ Co-developed two chapter-level knowledge summaries and revision sessions.	
◦ Produced and published recorded revision lectures on BiliBili.	